

Claims

What is claimed is:

1. A system for classifying objects, the system comprising:

an arrangement for formulating a query to identify objects having properties of
5 interest;

an arrangement for selecting properties of the objects to compare with object
properties included in the query; and

an arrangement for determining if based on the selected properties if object
belongs in the query.
- 10 2. The system of Claim 1, wherein the selection of properties of objects to
compare with object properties included in the query is made determined in conjunction
with a determination of the boolean expression of the properties.
3. The system of Claim 2, wherein the boolean expression is an optimized
expression of the expression that best defines the query.
- 15 4. The system of Claim 3, wherein the optimization of the boolean express is
accomplished by minimizing the error of the expression which defines the query.

5. A method for classifying objects, the method comprising the steps of:

identifying properties of objects;

formulating a query to identify objects having properties of interest;

selecting properties of the objects to compare with object properties included in

5 the query; and

determining if based on the selected properties if the object belongs in the query.

6. The method of Claim 5, wherein the selection of properties of objects to compare with object properties included in the query is made determined in conjunction with a determination of the boolean expression of the properties.

10 7. The method of Claim 6, wherein the boolean expression is an optimized expression of the expression that best defines the query.

8. The method of Claim 7, wherein the optimization of the boolean expression is accomplished by minimizing the error of the expression which defines the query.

15 9. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for classifying objects, said method comprising the steps of:

identifying properties of objects;

formulating a query to identify objects having properties of interest;

selecting properties of the objects to compare with object properties included in the query; and

5 determining if based on the selected properties if the object belongs in the query.